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DATE MAILED: 04/05/2006

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,800	10/660,800 09/12/2003		Hyoung-Jong Jin	116511-00112	7062
27557	7590	04/05/2006		EXAMINER	
BLANK R		_	HOPKINS, ROBERT A		
600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037				ART UNIT	PAPER NUMBER
	,			1724	

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental

Application No.	Applicant(s)		
10/660,800	JIN ET AL.		
Examiner	Art Unit		
Robert A. Hopkins	1724		

/	10/000,000	JIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Robert A. Hopkins	1724	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate comm RIGHTS. This application is a	n this application. If not include unication will be mailed in due	ed course. THIS
1. X This communication is responsive to application filed 9-	<u>12-2003</u> .		
2. The allowed claim(s) is/are <u>1-6</u> .			
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). 	ave been received. ave been received in Application	on No	tion from the
* Certified copies not received:		•	
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the rec	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g	omitted. Note the attached EX gives reason(s) why the oath o	AMINER'S AMENDMENT or N r declaration is deficient.	OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") m	nust be submitted.		
(a) I including changes required by the Notice of Draftsport	erson's Patent Drawing Revie	w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examin Paper No./Mail Date	er's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such i	R 1.84(c)) should be written on t in the header according to 37 Cl	he drawings in the front (not the FR 1.121(d).	back) of
6. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMEN			Note the
·			
Attachment(s)	• -	C. I.D. I. I.A. Bracker (DT)	0.450\
1. Notice of References Cited (PTO-892)	<u>=</u>	nformal Patent Application (PT)	J-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948	Paper No.	Summary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/S	B/08), 7. ☐ Examiner's	Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposition of Biological Material	it 8. ⊠ Examiner's	Statement of Reasons for Allo	wance
c. Diological Material	9.	_	٠,

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DETAILED ACTION

Allowable Subject Matter

Claims 1-6 are allowed.

The following is an examiner's statement of reasons for allowance:

Claim 1 recites "a dust-removing ring disposed around an outer surface of the filter and moving along an axial direction; a manipulation unit disposed under the filter to approach to, and retreat from the filter; a connection member interposed between the manipulation unit and the dust-removing ring, for moving the dust-removing ring in association with the approaching and retreating movements of the manipulation unit; an elastic spring interposed between the filter and the manipulation unit, for urging the manipulation unit to retreat from the filter; and an operating bar upwardly protruding from a bottom of the dust collecting receptacle, for pressing the manipulation unit towards the filter". Oh(6811584) teaches a dust removing ring(410) disposed around an outer surface of a grill for a cyclone vacuum cleaner, wherein the dust removing ring moves along an axial direction. However, Oh fails to teach a filter connected to a discharge port and disposed inside a dust collecting receptacle, a manipulation unit disposed under the filter to approach to, and retreat from the filter; a connection member interposed between the manipulation unit and the dust-removing ring, for moving the dust-removing ring in association with the approaching and retreating movements of the manipulation unit; an elastic spring interposed between the filter and the manipulation unit, for urging the manipulation unit to retreat from the filter; and an operating bar upwardly protruding from a bottom of the dust collecting receptacle, for

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pressing the manipulation unit towards the filter. It would not have been obvious to provide a manipulation unit disposed under the filter to approach to, and retreat from the filter; a connection member interposed between the manipulation unit and the dust-removing ring, for moving the dust-removing ring in association with the approaching and retreating movements of the manipulation unit; an elastic spring interposed between the filter and the manipulation unit, for urging the manipulation unit to retreat from the filter; and an operating bar upwardly protruding from a bottom of the dust collecting receptacle, for pressing the manipulation unit towards the filter because Oh does not suggest such a modification. Claims 2-6 depend on claim 1 and hence are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Hopkins whose telephone number is 571-272-1159. The examiner can normally be reached on Monday-Friday, 7am-4pm, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rah March 31, 2006

PRIMARY EXAMINER